S/109/60/005/012/035/035 E192/E382

Interdepartmental Seminar on Cathode Electronics (16th Session)

in the space-charge regime. On the basis of his experimental data the author showed that the main factor leading to an increase in the perveance of a diode with a pressed cathode is the increase in the intensity of the activated barium stream.

The third paper was read by P.V. Timofeyev and R.M. Aranovich. They reported the results of their investigation of a cold cathode made of magnesium oxide. They constructed electron tubes with magnesium-oxide cathodes (on a nickel base) coated with a layer of porous magnesium oxide having a thickness of 50  $\mu$ . These tubes could operate in various amplifying devices and could give an anode current up to 10 mA. The useful life of these tubes is more than 10 000 hours. The authors also demonstrated such a tube in a low-frequency amplifier.

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S/109/60/005/012/035/035 E192/E382

Interdepartmental Seminar on Cathode Electronics (16th Session)

In the paper "Secondary-emission Characteristics of Antimony Sulphide and its Analogues" by V.L. Makedonskiy, it was shown that the secondary emission coefficient of the layers of  ${\rm Sb_2S_3}$ .

Sb<sub>2</sub>Se<sub>3</sub> and Sb<sub>2</sub>Te<sub>3</sub> does not exceed 1.3.

A paper by V.A. Grodko et al entitled "Influence of the Difference of the Work Functions of the Electrodes of a Thermionic Converter on Its Output Parameters" presented the results of a theoretical analysis of the dependence of the output power and efficiency of a converter on the difference between the work functions of the anode and cathode (the above paper is published in the present issue of the journal).

Card 3/3

VIKHENAYEVA, R.P.; KUL'V.RSKAYA, B.S.; SHABEL'NIKOVA, A.E.; YASNOFOL'SKAYA,

A.A.

Interinstitutional seminar on cathode processes; 16th
session. Radiotekh. i elektron,5 no.12:2074-2075 D'60.

(Cathodes)

(Cathodes)

5/109/60/005/05/020/021 E140/E435

Basalayeva, N.Ya., Vikhlyayeva, R.P., Zhdan, A.G. **AUTHORS:** 

Zernov, D.V., Kofanova, T.I., Pervoya, L.Ya., Politova, N.M., Polyakova, M.A., Popov, B.N., Spivak, G.V.,

Shabel'nikova, A.E. and Yasnopol'skaya, A.A.

Report on the Ninth All-Union Conference on Cathode TITLE:

Electronics

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 5,

pp 866-879 (USSR)

This conference took place in Moscow from 21-28th ABSTRACT:

October 1959 with the participation of Soviet scientists and guests from Hungary, Eastern Germany, the Chinese Peoples' Republic and Czechoslovakia. The chairman of the organization committee was Academician Vekshinskiy. The report consists of brief abstracts of 125 papers presented at the plenary sessions and the sections of the conference. 15 Reports were presented in the section

on surface properties of solids dealing with electron adsorption and structural properties of active surface films. Electron-optical studies of "patch fields" on emitting surfaces were discussed. 6 Papers on the

Card 1/2

S/109/60/005/05/020/021 E140/E435

Report on the Ninth All-Union Conference on Cathode Electronics

physics of semiconductor cathodes were given in the section on thermionic emission. 17 Papers were presented in the section on photoelectric emission. Many papers discussed industrial technology of photocells and multipliers. 16 Papers were presented at the section on secondary-electron emission. The section on field emission heard ll papers discussing pulse field emission at high current densities, surface phenomena, field emission of semiconductors hand the "condenser" cathode. More than 30 papers and brief communications were presented at the section on properties, new types and technology of cathodes, relating to the technology of various types of cathodes, their behaviour in practical devices and the operating mechanisms of individual cathodes. 19 Papers were given at the section on interaction of solid bodies with streams of charged particles and residual gases. Notes of conference discussion indicated that several sharp and critical exchanges of views took place.

Card 2/2

sov/109-4-7-24/25

Alekseyeva, A.P., Vikhlyayeva, R.P., Shabel'nikova, A.E.

and Yasnopol'skaya, A.A. AUTHORS:

Interdepartmental Seminar on Cathode Electronics TITLE:

(14th Meeting) (News Item)

Radiotekhnika i elektronika, 1959, Vol 4, Nr 7, PERIODICAL:

pp 1215 - 1216 (USSR)

The meeting of the seminar took place on March 2, 1959, at the Institut radiotekhniki i elektroniki AN SSSR ABSTRACT:

(Institute of Radio-engineering and Electronics of the

Ac.Sc., USSR). During the meeting, 8 articles were read and discussed. The first article, by A.R. Shul'man and Yu.A. Morozov, was devoted to the investigation of the elastic reflection of the electrons having energies

ranging from 100 - 2 000 eV from 10 different elements (Cr., Ni, Cu, Ge, Mo, Mg, Ta, Pt, Au, C).

Ye.S. Mashkova and G.A. Chetverikova read a paper on

"Investigation of the Temperature Dependence of the

Secondary Emission Coefficient of Monocrystals of Barium

Titanate and Lead Titanate".

Card1/3

sov/109-4-7-24/25

Interdepartmental Seminar on Cathode Electronics (14th Meeting) (News Item)

M.V. Sinel'nikov reported on his investigation of the electron emission of a pure metal surface at room

A paper entitled "Electro-microscopic Investigation of the Emission of Pressed Cathodes" was read by

Ye.M. Dubinina. A.A. Gugnin and B.N. Popov reported on "Influence of Oxygen on the Emission of the Cathodes Prepared From the Salts of Barium and Calcium Having High Melting Points". B.Ch. Dyubua and B.N. Popov dealt with "Some Properties of the Barium-titanium System".

The results of an investigation of the field emission from tungsten monocrystals by pulse technique were presented by I.I. Gofman and G.N. Shuppe.

Card 2/3

Interdepartmental Seminar on Cathode Electronics (14th Meeting)

(News Item)

V.M. Gavrilyuk and Yu.S. Vedula presented a paper dealing with "Adsorption of Barium and Barium Oxide on Tungsten Surfaces".

Card 3/3

SOV-109-3-6-26/27

AUTHORS: Savitskaya, Ya. S., Vikhlyayeva, R. P., Alpatova, N. M.

TITLE: An Interdepartmental Seminar on Cathode Electronics (7th Session) (Mezhduvedomstvennyy seminar po katodnoy elektronike (7-e zasedaniye))

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 6, p 854 (USSR)

ABSTRACT: On the 3rd February 1956 a Session of the Interdepartmental Seminar took place in the Institute of Radio Engineering and Electronics of the Soviet Academy of Sciences. During the meeting 6 lectures were delivered. A. A. Maklakov and Ye. P. Meeting 6 lectures are delivered. A. A. Maklakov and Ye. P. Ostapchenko dealt with the new method of preparing barium and barium-calcium aluminates and tungstates. L. Ya. Snoktiy presented the results of her work on the improvement of the processing of sintered cathodes. The lecture of R. M. Processing of sintered cathodes. The lecture of R. M. Production technology and the methods of control of a new production technology and the methods of control of a new barium getter. N. I. Ekivina considered the problem of application of the electro-osmosis for the investigation of the electro-phoresis of alundum suspensions. The paper of

card 1/2

SOV-109-3-6-26/27

An Interdepartmental Seminar on Cathode Electronics (7th Session)

Yu. N. Buznikov analysed the causes and the mechanism of the darkening of alundum coatings during the preparation and the operation of the electron tubes.

SUBMITTED: March 14, 1958

Card 2/2 1. Electron tubes - USSR

8/109/60/005/010/028/031 B033/E415

Vikhlyayeva, R.P., Zhdan, A.G. and Shabel'nikova, A.E.

Inter-Institutional Seminar on Cathode Electronics AUTHORS:

TITLE: (15th Meeting)

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.10,

pp.1747-1748

Six reports were heard at the 15th Meeting of the Inter-Institutional Seminar on Cathode Electronics held on April 4, 1960 at the Institut radiotekhniki i elektroniki AN SSSR (Institute of Radioengineering and Electronics AS USSR). In his "The Application of Thermo-Electronic Emission for Direct Conversion of Heat Energy into Electrical, N.D. Morgulis gave a review of the work carried out at the Institut fiziki UkrSSR (Institute of Physics AS UkrSSR) and also at the Kiyevskiy gosudarstvennyy universitet (Kiyev State University). Some general physical properties of such converters, using pure tungsten, barium and cesium on tungsten, and thorium bicarbide cathodes had been investigated. For ThC2 cathodes at 1900 to 2100°K, the efficiency was 8 to 15% and the e.m.f. 1.7 V. L.N.Dobretsov and N.D.Devyatkov took part in the discussion. V.B.Sandomirskiy reported on his and Sh.M.Kogan's work on the Card 1/4

S/109/60/005/010/028/031 E033/E415

Inter-Institutional Seminar ...

external emission of "hot" electrons from homeopolar semiconductors with a strong applied homogeneous electric field. emission current is very dependent on the field particularly in the region corresponding to the horizontal part of the semiconductor volt-amp characteristic. M.I.Yelinson and A.G.Zhdan gave a report on the emission of "hot" electrons from quartz, activated by carbon. The authors had observed the emission of "hot" electrons from thin layers (approximately 5 microns) of SiO2 + C, depending on the voltage at the layer, the anode voltage and temperature. A.L. Shustina communicated her observations on self-maintained emission from nickel-based, magnesium-oxide, cold-cathodes. The emission was excited by either visible light or electron 'bombardment and was accompanied by a uniform blue glow. The relation between the current and the collector potential is exponential and the maximum current density was 7 mA/cm<sup>2</sup>. The emission current is relatively stable (3% fall over a period of 8 hours). D.V.Zernov pointed out that selfmaintaining emission also occurs in films of other materials, e.g. KCl and borium anhydride. N.L.Yasnopol'skiy, N.A.Karelina and V.S.Malysheva reported on secondary emission under (primary Card 2/4

5/109/60/005/010/028/031 E033/E415

Inter-Institutional Seminar ...

electron) irradiation of thin layers of magnesium oxide on a thin aluminium base (approximately 400 Å) with current density approximately 10-6 A/cm<sup>2</sup>. Secondary emission coefficients  $\sigma = 7.5 - 8.5$  were obtained for primary electron energies  $\sigma = 7.5 - 8.5$  were obtained for primary electron energies  $\sigma = 7.5 - 4.5$  kV and  $\sigma_{max} = 9$  when  $\sigma$ In the report "Secondary Emission under (Primary Electron) Irradiation from some Dielectrics" M.M. Sheftel' communicated that the maximum values of the secondary emission coefficient max were: for KCl 4.2 with  $V_p = 3$  kV; for NaCl 5.4 with  $V_p = 3.5$  to 4 kV; for MgO 8.8 to 9.8 with  $V_p = 6$  kV and current to 4 kV; for MgO 8.8 to 9.8 with  $V_p = 6$  kV and current densities  $\sim 10^{-9}$  A/cm<sup>2</sup>. The base was aluminium. It was stated It was stated that a thin layer of gold between the Al and the dielectric led to The "outflight" angular distribution of secondary electrons did not conform to a cosine law. A.Ya.Vyatskin an increase in d. pointed out the necessity of careful separation of "true" secondary electrons from reflected primary electrons. L.N.Dobretsov mentioned that the field of the charged spot can reduce & and Card 3/4

Inter-Institutional Seminar ...

S/109/60/005/010/028/031 E033/E415

distort the angular distribution of secondary electrons. V.I.Fomina in the report "Investigation of Induced Conductivity of Some Chalcogenides of Antimony" gave results obtained on thin layers of  $\mathrm{Sb}_2\mathrm{S}_3$  and  $\mathrm{Sb}_2\mathrm{Se}_3$ . For  $\mathrm{Sb}_2\mathrm{S}_3$ , gain coefficients of 500 to 600 and "multiplicity" coefficients of 100 to 200 were obtained. For  $\mathrm{Sb}_2\mathrm{Se}_3$ , corresponding figures were 1500 to 1700 and 2 to 3. The induced current depended on the exciting current density by  $\mathrm{I}_{1n} = \mathrm{aI}_p^n$ , where n varies from 0.5 to 1 at room temperature and above. The induced current also depends on the temperature in an exponential manner.

Card 4/4

VIKHLYAYEVA, R.P.; ZHDAN, A.G.; SHBEL'NIKOVA, A.E.

Interagency Seminar or Cathode Electronics. Radiotekh. i elektron.
5 no.10:1746-1748 0 '60. (MIRA 13:10)

(Cathodes) (Electron tubes)

VIKHLYAYEVA, Ye.M., doktor med. nauk; ZMANOVSKIY, Yu.F., kand. med. nauk

Use of tranquilizers in treating the climacteric syndrome.

Akush. 1 gin. no.1:95-101 '65. (MIRA 18:10)

l. Kafedra akusherstva i ginekologii I Moskovskogo meditsinskogo instituta imeni Sechenova (zav.- prof. K.N. Zhmakin) i Nauchno-issledovatel'skiy institut akusherstva i ginekologii Ministerstva zdravookhraneniya SSSR (dir.- prof. O.V. Makeyeva).

# VIKHLYAYEVA, Ye.M.; ZMAHOVSKIY, M.F.

Characteristics of the effect of sex steroid hormones on systemic motor conditioned reflexes in patients with climacteric syndrome. Akush. i gin. no.2:59-55'63. (MIRA 16:10)

1. Iz fiziologicheskoy laboratorii (zav. - prof. A.O.Dolin)
Nauchno- issledovatel'skogo instituta akusherstva i ginekologii Ministerstva zdravookhvaneniya RSFSR (dir. - prof. O.V.
Makeyeva) i kafedry akusherstva i ginekologii I Moskovskogo
ordena Lenina meditsinskogo instituta (zav. - prof. K.N.
Zhmakin).

(CLIMACTERIC) (HORMOMES, SEX) (CONDITIONED RESPONSE)

VIKHLYAYEVA, Ye.M.

Principles for the treatment of patients with the climacteric syndrome. Sov. med. 27 no.6:52-58 Je '64.

1. Kafedra a susherstva i inekologii (zav. - prof. K.N. Zhmakin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

## VIKHLYAYEVA, Ye.M.

Pathogenesis and treatment of the climacteric syndrome. Akush.

(MIRA 15:11)

i gin. no.1:3-11 62.

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhennyy deyatel' nauki prof. K.N. Zhmakin) I Moskovskogo meditsin-skogo instituta imeni I.M. Sechenova.

(CLIMACTERIC)

## VIKHLYAYEVA, Ye.M. (Moskva)

Thyroid gland function in women during the climacteric. Problem endok.i gorn. 7 no.3:68-73 '61. (MIR: 14:10)

l. Iz kafedry akusherstva i ginekologii (zav. - prof. K.N. Zhmakin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(THYROID GLAND) (CLIMATERIC)

VANINA, L.V., kand.med.nauk., VIKHLYAYEVA, Ye.M., kand.med.nauk

Tenth All-Union Congress of Obstertricians and Gynecologists.

Klin.med. 36 no.8:151-156 Ag '58
(OBSTETRICS—CONGRESSES)
(GYNECOLOGY—CONGRESSES)

VIKHMAN, A.; SAVEL'YEV, V. (Arkhangel'sk); DEGTYAREV, N.; RYABENKOV, Ya.;

ROPROVSKAYA, Z.: KULAGIN, N.; GROMADCHENKO, A. (g. Shakhty); MUN'KO, B.

(g.Zaporozh'ye); STROGAHOV, B. (Kaliningrad); KAZAKOV, P.;

MAKAROV, L. (Dnepropetrovsk); ABRAMOVA, V. (Grodno); MOTCHENKO, V.

(Kiyev); KRASNOV, A. (g. Al'met'yevsk); KAPLAN, Ya.; KASATKIN, I.

(Yaroslavl').

Letters to the editors. Sov.profsoiuzy 16 no.4:44-49 F '60. (MIRA 13:3)

1. Chlen zavkoma, predsedatel' komissii okhrany truda moskovskogo zavoda "Elektrosvet" imeni P.N. Yablochkova (for Vikhman). 2. Clavnyy inzhner Kuchurganskogo cherepichno-kirpichnogo zavoda, selo Sokhal'skoye, Rozdel'nyanskogo rayona, Odesskoy oblasti (for Degtyarev).
3. Dorozhnyy komitet professional'nogo soyuza rabotnikov zhelezno-dorozhnogo transporta, Sverdlovsk (for Bobrovskaya, Kulagin). 4. Novo-trubnyy zavod, g. Pervoural'sk (for Kazakov). 5. Predsedatel' post-royechnogo komiteta 5-go stroyrayona tresta "Al'met'yevneftestroy" (for Krasnov). 6. Predsedatel' ob"yedinennogo postroykoma tresta "Khabarovskstroy" (for Kaplan). 7. Predsedatel' tsekhovogo komiteta otdela glavnogo tekhnologa Yaroslavskogo motornogo zavoda (for Kasatkin).

(Efficiency, Industrial) (Trade unions)

L 14462-66 ACC NR: AP6002972

SCURCE CODE: UR/0286/65/000/024/0147/0148

INVENTOR: Sinitskiy, B. A.; Kuznetsov, V. M.; Vaksman, A. Z.; Ratner, A. G.; Vikhman, B. A.; Rimmer, A. I.; Dmitriyev, V. P.; Rikhter, A. A.; Zagaytov, A. P.

TITLE: A universal form for hulls in shipbuilding Class 65, No. 177291

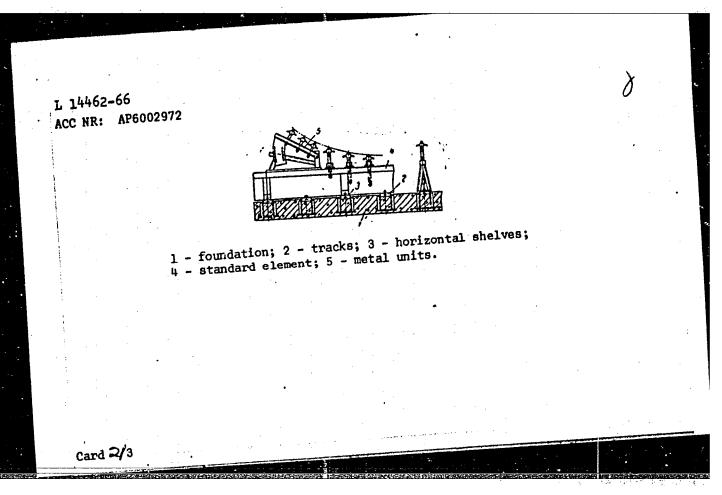
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 147-148

TOPIC TAGS: shipbuilding engineering, marine equipment, ship

ABSTRACT: This Author's Certificate introduces a universal form for hulls in ship-The installation includes a foundation with standard elements, e.g. beams, stands and frames in a form depending on the members which make up the hull structure. The installation is designed for convenience in assembly, efficiency in the use of production area and economy of metal. The foundation is made up of anchored longitudinal or transverse channel or angle tracks. The projecting horizontal shelves of the tracks form T-slots above the level of the foundation by the thickness of a shelf. The standard elements are made with mating sockets for fastening 629.12.002.011 : 621.757 :

: 621.791 : 621-783.624

card 1/3



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GLIKMAN, L.S.; BOCHAROV, I.V.; VIKHMAN, G.L.; ABROSIMOV, B.Z.; KIRILOV, Ye.A.; MEL'NIKOV, S.M.; AGAFONOV, A.V.; SOSKIND, D.M.

Rebuilding catalytic cracking units with a combined reactor-regenerator, Knim. 1 tekh. topl. 1 masel 6 no.11:6-10 N '61. (MIRA 14:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy 1 proyektnyy institut neftyanogo mashinostroyeniya. (Cracking process)

VIKHMAN, Goergiy L'vovich; KRUGLOV, Sergey Aleksandrovich; BASKAKOV,

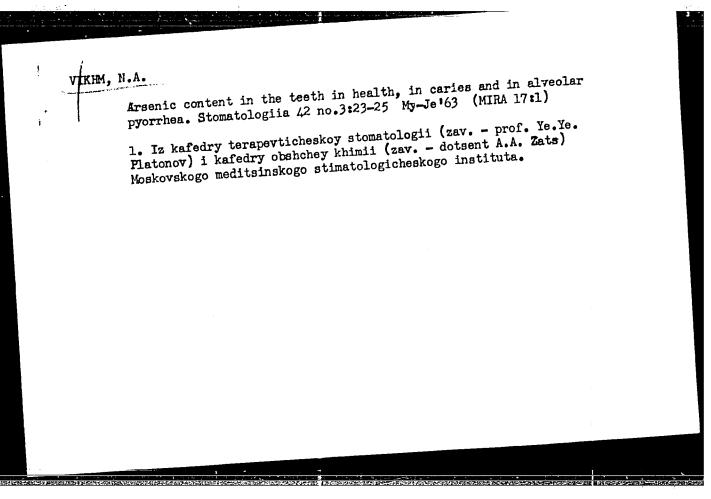
A.A., inzh., retsenzent; YEFREMOVA, T.D., ved. red.;

VOROB'YEVA, L.V., tekhm. red.

[Principles of the design of equipment and machines for petroleum refineries] Osnovy konstruirovaniia apparatov i mashin neftepererabatyvaiushchikh zavodov. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1962. (MIRA 15:2) 110 p. (Petroleum refineries-Equipment and supplies)

# WIKHMAN, L.A. Effect of some drugs on hemagglutination with the influenza virus. Zhur. mikrobiol. epid. 1 immun. 31 no. 5:118 My '60. (MIRA 13:10) (BLOOD—AGGLUTINATION) (INFLUENZA)

# High-pressure pneumatic membrane gauge (pressure-drop gauge). Khim.i tekh.topl.i masel 5 no.12:56-58 D '60. (MIRA 13:12) Khim.i tekh.topl.i masel 5 no.12:56-58 D '60. (MIRA 13:12) 1. Spetsial 'noye konstruktorskoye byuro po avtomatika v neftepererabotke i proizvodstve iskusstvennogo zhidkogo topliva. (Pressure gauges)



BERKLAYD, I.M.; VIRIMAN, V.S.; doktor tekhn. nauk; DRAUDIN, A.T.; KOPANEVICH, N.Ye.; OVCHARENKO, G.I.; THEENSHLYAK, Z.L.; CHASOVNIKOV, G.V.; TESTT-N.Y.; JAMES BATEUROV, B.S.; rod.; KOCHENOV, M.I., red.; MALYY, D.D., red.; STROGANOV, L.P., inzh., red. izd-va; DOERITSINA, R.I., tekhn. red.

[Automatic controllers] Kontrollinye avtoraty. Moskva, Manchnotekhn. izd-vo mashinostroit. lit-ry, 1961. 193 p. (MIRA 14:8)

(Electronic measurements)

AUTHOR:

Levenson, Ye.M., Engineer

SOV-117-58-9-22/22

TITLE:

Review (Retsenziya)

PERIODICAL:

Mashinostroitel', 1958, Nr 9, p 48 (USSR)

ABSTRACT:

This is a critical review of a book by V.S. Vikhman published in 1957, entitled "Electro-Automation of Technical Control

of Machine-Building Production".

1. Machine tools--Production 2. Machine tools--USSR

Card 1/1

USCOMM-DC-55523

VIKHMAN, V. S. (Cand. Tech. Set.) and D'YACHENKO, f. Ye. (Dr. Tech. Set., Frof.);

XXI. "Automation and Mechanization of Technical Inspection Under Instrumentmanufacturing Conditions," <u>Automation and Mechanization of Production Processes</u> in <u>Instrument Manufacturing</u>, Moscow, Mashgiz, 1958. 591 p.

PURPOSE: This book is intended for engineers, technicians, and scientific personnel concerned with mechanization and automatin of production processes in instrument manufacturing, and for students and teachers of this subject in vuzes.

PHARE I BOOK EXPLOSITION SUVATION TO COMMENT AND PROVIDED TO TECHNICAL MARKET BOOK EXPLOSITION SUVATION AND THE PROPERTY AND	l	<i>L</i>		<i>' I</i>	Ł	ท	A	· /	Ond 2/11	<b>,</b>	S P. STATE			Introduction [A.	Powerd	. TAKE OF CONTENTS	Schmetific-late traces of permits and permits deni	COTELLE The box PROSPRING TO day ILLA-SCOOLS Is given to per mechanic, cold of walking, old Card 1/11	FUNCAL This book mad instruction and instruction the highest education	Me. Annicity Witt Managing Ed. For (Managin): N.F Dagineer; Fech.	Servemences e stophile 1 prilarrestrophile () chine and Instrumet If thoo. %3 p. 5,000 m	•					
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Present State (Cont.) SOV/4718	
<ol> <li>Automatic control devices, their structure and range of application</li> <li>Construction of transducers for automatic control devices</li> <li>The practice of applying the means for automatic control and sorting</li> <li>Problems in the field of automatic control</li> </ol>	449 452 459 464
Ch. XVIII. Automating Production in Machine Building [A.V. Derbisher, Candidate of Technical Sciences]  1. The automation and modernization of equipment 2. Automatic and mechanized continuous [production] lines and sectors: 3. Automation of checking operations 4. Automation and mechanization of labor-consuming operations 5. Modern machine-tool building 6. Generalization of advanced experience 7. Conclusions, outlook, and problems in the field of full automation and mechanization of production	466 467 475 484 491 500 500
Ch. XIX. Method of Determining the Economic Effectiveness of Full Mechanization and Automation in Machine Building [K.I. Klimenko, Doctor of Economic Sciences, Professor]  Card 10/11	506
-w-w 19/11	

# Using television calculating equipment in automatic dimension control. Izm.tekh. no.11:3-14 N '62. (MIRA 15:11) (Industrial television) (Electronic control)

# PHASE I BOOK EXPLOITATION SOV/5839

- Berklayd, I. M., V. S. Vikhman, A. T. Draudin, N. Ye. Kopanevich, G. I. Ovcharenko, Z. L. Tubenshlyak, G. V. Chasovnikov and Ya. M. Tseytlin
- Kontrol' nyye avtomaty ([Dimensional-] Control Automatics) Moscow, Mashgiz, 1961. 193 p. (Series: Progressivnyye sredstva kontrolya razmerov v mashinostroyenii) Errata slip inserted. 4500 copies printed.
- Eds. of Series: B. S. Bayburov, M. I. Kochenov, and D. D. Malyy; Scientific Ed.: V. S. Vikhman, Doctor of Technical Sciences; Ed. of Publishing House: L. P. Stroganov, Engineer; Tech. Ed.: R. I. Dobritsyna; Managing Ed. for Literature on Means of Automation and Instrument Construction: N. V. Pokrovskiy, Engineer.
- PURPOSE: This book is intended for designers and technical personnel in machine plants.

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Control Automatics

SOV/5839

COVERAGE: The book contains information on the most important Soviet latemodel automatics for the inspection, sorting, and automatic control of machine parts according to their geometric parameters. The book is part of a series devoted to modern means of dimensional control and was recommended by the Commission on the Introduction of Advanced Control Methods and Means in the Machine Industry of the State Scientific-Technological Committee of the Council of Ministers of the USSR. Attention is given to the construction, operation, and specifications of a number of dimensional-control automatics for various purposes. Photographs and layout diagrams are included. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Introduction

5

Ch. I. General-Purpose [Dimensional-] Control Automatics

10

Card 2/3

FOKROVSKIY, G.P.; VIKHMAN, V.S., doktor tekhn. nauk, retsenzent; YEGORKINA, L.I., inzh., red.

[Use of electronic control in automobile engine fuel systems] Primenonie elektroniki v sistemakh pitaniia avtomobil'nykh dvigatelei. Moskva, Izd-vo "Mashinostro-enie, 1964. 98 p. (MIRA 17:5)

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VIKHHAN, V. S.

"An automatic compensation of the wear of cuttion tool."

Programmed Control of Metal Cutting Machines. report presented at All-Union Conference, Moscow, 13-16 Nov 1957

<u>Vestnik Ak. Nauk SSSR</u>, 1958, No. 2, pp. 113-115, (author Kobrinskiy, A. Ye.)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720013-5"

1/1 K H FF 1 17 FJ -- V - 3

GAVRILOV, A.M., prof., doktor tekhn.nauk; IEM YANYUK, F.S., prof., doktor tekhn.nauk; MITROFANOV, S.P., kand.tekhn.nauk; KORSAKOV, V.S., prof., doktor tekhn.nauk; IVANOV, D.P., doktor tekhn.nauk; STO-ROZHEV, M.V., kand.tekhn.nauk; MALOV, A.H., kand.tekhn.nauk; KUDRYAVTSEV, I.V., prof., doktor tekhn.nauk; SHNEYDER, Yu.G., kand.tekhn.nauk; SHUKHOV, Yu.V., dotsent; KAZAKOV, N.F., kand. tekhn.nauk; ZOLOTYKH, B.N., kand.tekhn.nauk; ROZENBERG, L.D., prof., doktor tekhn.nauk; YAKHIMOVICH, D.Ya., inzh.; NIKOLAYEV, G.A., prof., doktor tekhn.nauk; VLADZIYEVSKIY, A.P., doktor tekhn. nauk; SHAUMYAN, G.A., prof., doktor tekhn.nauk; KOSHKIN, L.N., kand.tekhn.nauk; BOBROV, V.P., kand.tekhn.nauk; NOVIKOV, M.P., kand.tekhn.nauk; VIKHMAN, V.S., kand.tekhn.nauk; DERBISHER, A.V., kand.tekhn.nauk; KLIMENKO, K.I., prof., doktor ekonom.nauk; VYATKIN, A.Ye., inzh.; SATKL', E.A., prof., doktor tekhn.nauk; FOFANOV, I.G., inzh.; MATVEYENKO, V.V., inzh.; KOCHETOVA, G.F., inzh., red.izd-va; KL'KIND, V.D., tekhn.red.; TIKHANOV, A.Ya., tekhn.red.

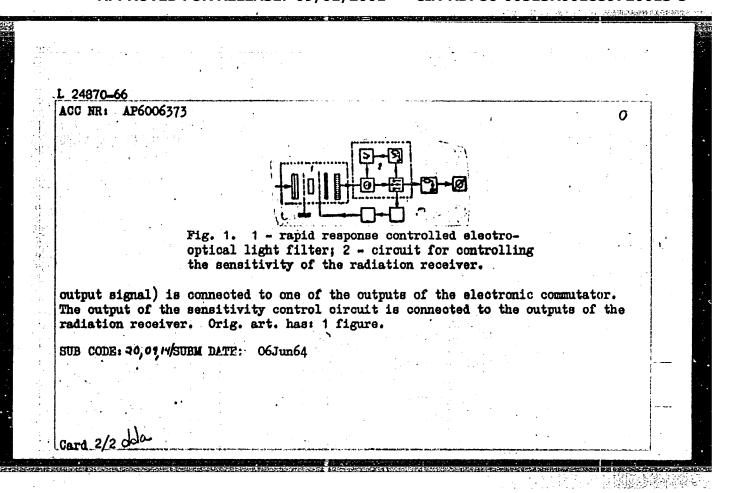
[Present status and trends of future development of technological processes in the manufacture of machinery and instruments] Sovremennoe sostoianie i napravleniia razvitiia tekhnologii mashinostroeniia i priborostroeniia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 563 p. (MIRA 13:7)

(Machinery industry--Technological innovations)
(Instrument menufacture--Technological innovations) (Automation)

BALAKSHIN, O.B.; <u>VIKHMAN</u>, <u>V.S.</u>, doktor tekhn. nauk, retsenzent; KURATTSEV, L.Ye., inzh., red.

[Automation of pneumatic control of dimensions in the manufacture of machinery] Automatizatsiia pneumaticheskogo kontrolia razmerov v mashinostroenii. Moskva, Mashinostroenie, 1964. 363 p. (MIRA 17:10)

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	AP6006373	SOURCE CODE: U	JR/0413/66/000/002/0107/010	77
AUTHORS:	Kuznetsov, V. S.; Vikhm	an, V. S.; Leont'yev, I	C. L.; Zharov, N. A.; Rez,	
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TITLE: A	n automatic pyrometer of	the spectral ratio. (	Dlass 42, No. 178146	
SOURCE:	Izobreteniya, promyshlen	myye obraztsy, tovarny;	ye znaki, no. 2, 1966, 107	
	S: automatic control te t machinery	chnology, pyrometer, spe	ectrum analyzer, precision	
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			cision, and simplifies the	'
scaling o	ircuit of the pyrometer.	. The unit has an elect	tro-optical system in the	
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ABAKUMOVSKIY, D.D., inzh.; VIKHMAN, Yu.L., inzh.; VUDO\UZOV,A.I.,inzh.; ZORIN,R.P.,inzh.; IGNATCHENKO,Ye.A.,inzh.; LITINSKIY,M.E.,inzh.; SAZONOV,A.I.,inzh.; PRITULA,V.A., inzh.,; POMAZKOV,S.A.,inzh.; FRUKHTÆYM,L.I.,inzh.; SAFOZHEINOV,N.M.,inzh.; MASYUK, A.I., inzh.; YANKELEV,L.F.,inzh.; BASHILOV,M.M.,otv. red.; LATINSKIY,M.E., red.; POLOSINA, A.S., tekhn. red.

[Handbook for builders and assemblers of the petroleum industry] Spravochnik stroitelia-montazhnika neftianoi promyshlennosti. Moskva, Gostoptekhizdat, 1946. 250 p. (MIR. 15:4)

1. Mussia(1923- U.S.S.R.)Narodnyy komissariat neftyanoy promyshlennosti. Glavnoye upravleniye. 2. Narodnyy komissariat neftyanoy promyshlennosti SSSR (for all except Eashilov, Latinskiy, Polosina). (Petroleum industry)

VIKHMAN, Z.A., Iran.; FISHER, F.K., inwh.

Conveyor with an automatic addressing system used in a machine shop. Mekh. i avtom. proizv. 18 no.4:31-34 Ap\*64. (MIRA 17:5)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720013-5"

# VIKHMANN, F. [Vichmann, F.]

Generalized convergence factors for Euler-Knopp's method. Restited akad tehn fuus 11 no.2:107-113 '62.

1. Tartuskiy gosudarstvennyy universitet.

BABITSKIY, Il'ya Filippovich; VIKHMAN, Georgiy L'vovich; VOL'TSON, Samuil Iosifovich; KORSUN, Ye.P., ved. red.

[Designing and constructing the apparatus of petroleum refineries] Raschet i konstruirovanie apparatury neftepererabatyvaiushchikh zavodov. 2. perer. i dop. izd. Moskva, Nedra, 1965. 903 p. (MIRA 18:2)

L 12808-66 EWT(1)/EWA(j)/T/EWA(b)-2 JK

ACC NR: AP5028188

SOURCE CODE: UR/0248/65/000/008/0074/0082

AUTHOR: Prozorovskiy, S. V.; Vikhnovich, E. M.; Vinnikova, N. I.; Zubets, N. A.

ORG: Institute of Epidemiology and Microbiology im. N. F. Gamalei, AMN SSSR (Institute epidemiologii i mikrobiologii AMN SSSR); Institute of Virology im. D. I. Ivanovskiy, AMN SSSR, Moscow (Institut virusologii AMN SSSR)

TITLE: Biology of L-forms of bacteria and mycoplasms, causative agents of diseases of the respiratory organs and upper respiratory tract

SOURCE: AMN SSSR. Vestnik, no. 8, 1965, 74-82

TOPIC TAGS: bacteria, mycoplasm, infective disease, microbiology

ABSTRACT: Study of various representatives of Mycoplasmatacae - M. gallinarum, M. gallisepticum, M. inners, Murimices pulmonis, Musculomices pulmonis, M. hyorhinis, M. mycoides, M. pneumoniae, M. salivarium, and M. orale - showed them to be pneumotropic, aerobic (except M. salivarium and M. orale), similar in enzymatic activity, in need of horse or rabbit serum in the medium to ensure growth, and capable of causing a- or \u03b3-hemolysis of equine erythrocytes. These agents are serologically

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ACC NR: AP5028188

specific. A comparison of *M. pneumoniae* and other mycoplasmas revealed that the morphology and microstructure of *M. pneumoniae* colonies are typical of most mycoplasmas. In view of the close relationship between mycoplasmas and bacterial forms and the reversion of some strains of mycoplasmas into bacteria, the authors conclude that some species of mycoplasmas can be regarded as L-form bacteria. They suggest that in the light of this phenomenon research should be directed to elucidation of the possible role of L-form bacteria and mycoplasmas in the pathogenesis of some acute and chronic diseases of the respiratory organs and upper respiratory tract. Orig. art. has: 5 figures, 2 tables.

SUB CODE: 06/ SUBM DATE: 02Jun65/ ORIG REF: 024/ OTH REF: 000

Card 2/2

KAGAN, G.Ya.; DREYZIN, R.S.; PROZOROVSKIY, S.V.; VIKHNOVICH, E.M.

Cultivation of Eaton's agent (Mycoplasma pneumoniae) on artificial culture media. Biul. eksp. biol. i med. 60 no.9:75-78 S 165.

1. Otdel obshchey meditsinskoy mikrobiologii (zav. - deyst-vitel'nyy chlen AMN SSSR prof. V.D. Timakov) Instituta epidemiologii i mikrobiologii imeni Gamalei (dir. - chlenkorrespondent AMN SSSR prof. P.A. Vershilova) AMN SSSR i Institut virusologii imeni Ivanovskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. V.M. Zhdanov), Moskva.

VIKHNOVICH, O.L., inzh.

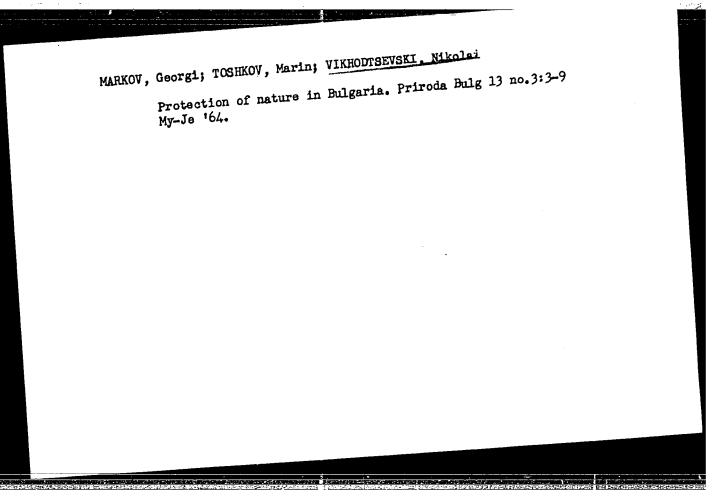
Vibration drawing of ore. Bezop. truda v prom. 8 no.10:25-26 0 '64.

(MIRA 17:11)

1. Institut gornogo dela im. A.2. Skochinskogo.

VIKHNOVICH, O.L. (Moskva); GONCHAREVICH, I.F. (Moskva); TERPAGOSOV, Z.A.

Study of the operational productivity and labor consumption of vibration drawing and delivery of ore. Izv. AN SSSR. Met. i gor. delo no.6:179 N-D '64. (MIRA 18:3)



VIKHODTSESKII, N.

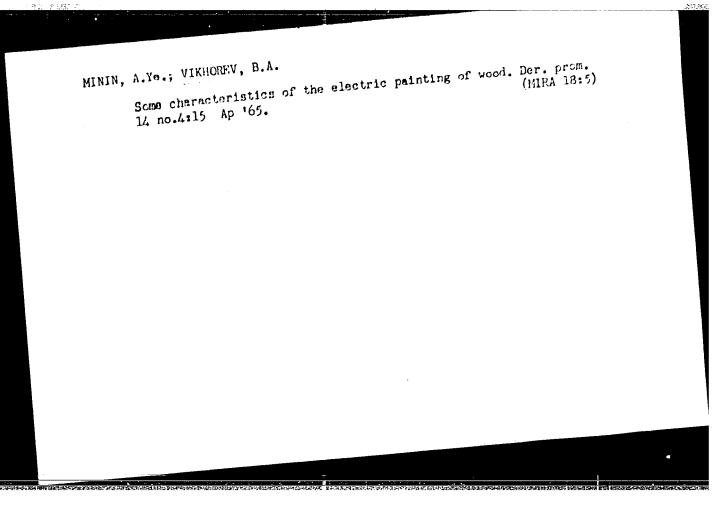
"Contributions to the study of the biology of the sea dragon, Trachinus draco L."

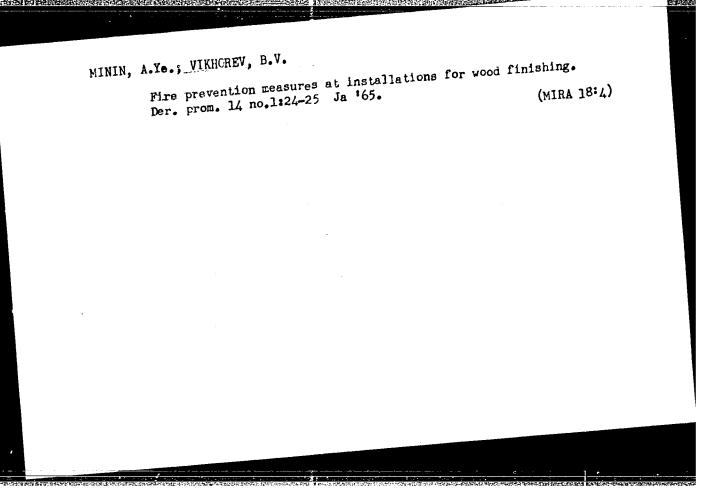
p. 585 (Izvestia) Vol. 7, no. 7, 1956. Sofia, Bulgaria

SO:: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5., May 1958

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VIKHOREV	Modernization of a Der. prom. 13 no. 9		ors for electri	cipainting. (MIRA 17:11 ) im. Lunachar-	)
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MININ, Andrew Yestmaniah, Vikhohev, Soris Andreyevich;
KOTIYAKEVSKAYA, G.A., red.

[Operation of units for electrostatic spray painting]
Ekspluatatiia elektrookrasochnykh ustanovok. LeninEkspluatatiia elektrookrasochnykh ustanovok. grad, 1965. 26 p.

Optimus velocity of air in air coolers. Khol. tekh. 35 no. 3:48

(MIRA 11:7)

My-Je '58.

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti.

(Refrigeration and refrigerating machinery)

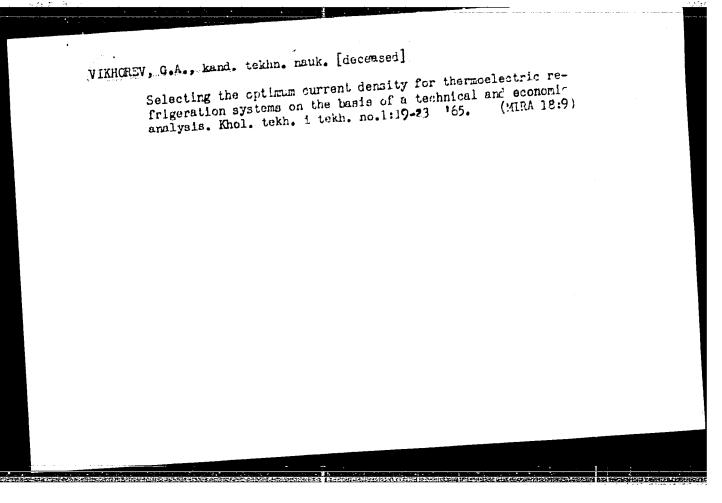
### YIKHOREV, G.

Calculations for a heat pump used for heating [with summary in Knglish]. Khol.tekh. 37 no.2:22-24 My-Ap 60. (MIRA 13:10)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti.

(Heat pumps)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720013-5"



VIKHOREV, G.A., kand. tekhn. nauk; SEMENYUK, V.A., inzh.

Effect of the thermal e.m.f. on the characteristics of semiconductor batteries fed by their rectifiers. Khol. tekh. i tekh. (MIRA 18:9) no.1:24-28 '65.

BONDARENKO, K. F., inzh.; VIKHOREV, G.A., inzh.

Determining the height of coil spiral fins on the basis of the condition of the volume of metals. Trudy OTIPiKhP 12: (MIRA 17:1)

1. Kafedra kholodil'nykh ustanovok i kafedra kholodil'nykh mashin Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti.

MEL'TSER, L.Z., kand.tekhn.nauk; VIKHOREV, G.A., inzh.; KOMISSARENKO, V.A., inzh.; SPINIVASAN, R.V.

Experimental study of a two-stage compressor with a 1:1 ratio of the stage volumes. Khol.tekh. 40 no.5:23-27 S-0 (MIRA 16:11)

l. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'-- noy promyshlennosti.

VIEROREV, K.A., inzh.; KURBATOV, N.M., inzh.

Supplying preassembled diesel engines from machine manufacturing plants and installing them in ships. Sudostroenie 24 no.7:50-53 J1 '58. (Marine diesel engines)

(Marine diesel engines)

AMROM, S.D., LEBEDEV, O.T.; VIKHOREVA, K.N.

Device for studying the higher nervous activity in man by the method of conditioned level. Zhur. vys. nerv. deiat. 15 no.3: 567-572 My-Je 165. (MIRA 18:6)

l. Institut evolyutsionnoy fiziologii i biokhimii im. I.M. Sechenova AN SSSR.

Activity of the Printing Industry Section of the Technical and Economic Committee of the Leningrad Economic Council. Biul.tekh.-ekon.inform. no,2:85-86 '62. (MIRA 15:3)
(Leningrad--Printing industry)

ACC NRI AP6015682

SOURCE CODE

SOURCE CODE: UR/0413/66/000/009/0079/0079

INVENTOR: Vikhorev, V. G.; Deniskin, V. P.; Trakhtenberg, L. I.

ORG: None

TITLE: An eddy current instrument for measuring the thickness and resistivity of sheet material. Class 42, No. 181306

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 79

TOPIC TAGS: eddy current, electronic measurement, resistivity

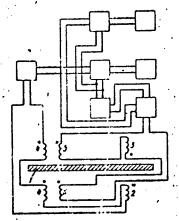
ABSTRACT: This Author's Certificate introduces an eddy current instrument for measuring the thickness and resistivity of sheet material. The unit contains an rf current generator, two overlapping eddy current pickups, phase detectors which are sensitive to that the thickness and resistivity of the sheet material and an indicator. The unit is designed for eliminating the effect which changes in the gap between the pickups and the sheet being inspected have on instrument readings. The device contains a shielded pickup with current and measurement coils with the same geometric specifications as the corresponding coils in the overlapping pickups, while the measurement coil in the shielded pickup has three times as many turns as that in the overlapping pickup. The current coils in all pickups are connected in series and are all in phase. The measurement coils in the overlapping pickups are likewise connected

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UDC: 531.717.11.621.317.33

ACC NR. AP6015682

in series and in phase with each other and in series and opposition with the measurement coil of the shielded pickup.



1-sheet being inspected; 2-current coil of the shielded pickup; 3-measurement coil of the shielded pickup; 4-current coils of the overlapping pickups; 5-measurement coils of the overlapping pickups

SUB CODE: 09/ SUBM DATE: 12Ju165

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720013-5"

LEBEDEV, O.T.; VIKHGREVA, K.K.

Device for synchronizing etimulators and controlling and measuring instruments. Fiziol.znur. 51 no.7:295-896 165. (MIRA 18:10)

1. Institut evolutsionney finielogii imeni I.M. Sechenova AN SCOP., Leningrad.

 $\mathcal{B}$ 

L 27646-66 ACC NR: AP6018518 SOURCE CODE: UR/0239/65/051/007/0895/0896 30

AUTHOR: Lebedev, O. T; Vikhoreva, K. N.

ORG: Institute of Evolutionary Physiology, im. I. M. Sechenov, Leningrad, AN SSSR (Institut evolyutsionnoy fiziologii AN SSSR)

TITLE: Instrument for synchronous switching on of a stimulant and of control and measuring devices

SOURCE: Fiziologicheskiy zhurnal SSSR, v. 51, no.7, 1965. 895-896

TOPIC TAGS: electronic circuit, conditioned reflex, electric relay, electronic equipment

An electronic circuit has been designed by means of which the ABSTRACT: stimulant and a number of control and measuring devices are switched on simultaneously in experiments in which the dynamic characteristics of analysors (visual, auditory, etc.) are studied. Application of the circuit proposed eliminates the shortcomings connected with the use of electromechanical relays. The arrangement in question is suitable for the study of conditioned reflexes. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 06,09/ SUBM DATE: 18Feb64/ ORIG REF: 001/ OTH REF: 001

612.84.08

L 23162-66 ACC NR: AP5015947

SOURCE CODE: UR/0247/65/015/003/0567/0572

AUTHOR: Amrom, S. D.; Lebedev, O. T.; Vikhoreva, K. N.

ORG: Institute of Evolutionary Physiology and Biochemistry imeni I. M. Sechenova, Academy of Sciences, SSSR (Institut evolyutsionnoy fiziologii i biokhimii Akademii nauk SSSR)

TITLE: Device for the investigation of higher nervous activity in man by the conditioned level method

SOURCE: Zhurnal vysshey nervnoy deyatel'nosti, v. 15, no. 3, 1965, 567-572

TOPIC TAGS: nervous system, reflex activity, conditioned reflex, medical equipment

ABSTRACT: The conditioned level method proposed for studying higher nervous activity consists of having the subject press a button up to an assigned point on the scale of a reflexometer; his sense of sight, hearing or touch may be used. The subject is then required to repeat the same action "blindly". A special apparatus was constructed for the study of this method. When the apparatus is turned on the first timer measures the time of latent stimulation. Simultaneously, a stimulus

UDC: 612.833.81 + 612.821.1

Card 1/2

L 23162-66 ACC NR: AP5015947

(sound, light, etc.) is generated. As soon as the subject presses the button on his control hoard the first timer is stopped and the second is activated. When the stimulus is stopped by the subject, a starting impulse is produced which stops the second timer and switches on the third. This timing device, measuring the time of latent retardation, continues to count the time until the operation stops. If the "blind" action of the subject fails to reach the given level, the third device is not switched on and the second timer operates until the operation stops. There are four stimulators in the apparatus which may emit stimuli at (1) the beginning of the latent stimulation, (2) the end of the latent stimulation, (3) the end of the reaction, i. e., at the beginning of latent retardation, (4) the end of latent stimulation. The order of stimuli may be varied, for example, to 1-4, 2-3, 3-4, etc. The exact deviation from the conditioned level of the "blind" action of the subject is measured by the deflection of rays on the screen of an oscillograph. Block diagrams of the test apparatus are presented. Orig. art. has: 4 figures.

ORIG REF: 006/ SUBM DATE: 23Mar64/ SUB CODE: 06/

CIA-RDP86-00513R001859720013-5" **APPROVED FOR RELEASE: 09/01/2001** 

SHISHOKIN, V.P.; AGBYEVA, V.A.; VIKHOREVA, H.A.

Determination of a repid hardness index as method of physicochemical analyses. Trudy LPI no.202:56-64 159. (MIRA 12:12)

(Metals--Testing) (Hardness)

Shishokin, V.P.; Vikhoreva, N.A.

Concentrated method of determining durable hardness. Trudy LPI no.202:65-67 '59. (Mira 12:12)

(Metals-Testing) (Hardness)

18(7), 18(6)

SCV/163-59-1-31/50

AUTHORS:

Shishokin, V. P., Vikhoreva, E. A.

TITLE:

Concentric Method of Long-term Hardness Determination as a Method of Physicochemical Analysis (Kontsentratsionnyy spasob opredeleniya dlitel'noy tverdosti kak metod fiziko-

khimicheskogo analiza)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959,

Nr 1, pp 165 - 167 (USSR)

ABSTRACT:

In this investigation the long-term hardness was determined by impressing a cone successively into the same indentation, which thus can be described as a method of concentric indentations. The opening angle of the cone was 90°. Lead, tin, cadmium, and bismuth, and the eutectic alloys and solid solutions formed by these metals were investigated. In all cases a rectilinear relationship was found to exist between the logarithm of the indentation diameter and the logarithm of the load time. Eutectic alloys exhibited the greatest reduction of hardness with increasing duration

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Concentric Method of Long-term Hardness Determination as a Method of Physicochemical Analysis

007/103-59-1-31/50

of load time. Variations of the load between 18.4 -62 kg exert no influence upon the ratio hardness-load time. The relationship between the indentation diameter d and the load time t is expressed by the formula d= atn, where a and n are constants depending upon the composition and the structure of the alley. As, however, between the Brinell hardness H and the indentation diameter d there exists the relationship  $H_B = a_1 d^{-2.04}$  (Ref 2), the yields  $H_B = a_2 T$ where n' = 2.04 n, n can be determined according to a formula given in this paper. n' is the index of the hardness variation rate and is a measure of long-term hardness. A parallel course is found between the variation of n' and the thermal coefficient of the hardness (Ref 6). A reduction of the deformation rate exerts the same influence upon the mechanical properties as a rise in temperature. The factors which are the cause of the varying magnitude of n' must also influence the thermal coefficient of hardness. The principal factor influencing the modification of hardness is the

Card 2/3

Concentric Method of Long-term Hardness Determination SOV/163-59-1-31/50 as a Method of Physicochemical Analysis

displacement of the equilibrium in the following reversible process:consolidation stress relief (Ref 7). In eutectic alloys this displacement may be connected with the solution and precipitation processes taking place at the contact surfaces between the phases (Ref 8). In solid solutions the displacement of equilibrium due to a change of temperature and of the rate of deformation can be determined by variations of the volume and of the polarization conditions (Ref 9). There are 1 figure, 1 table, and 9 references, 7 of which are Soviet.

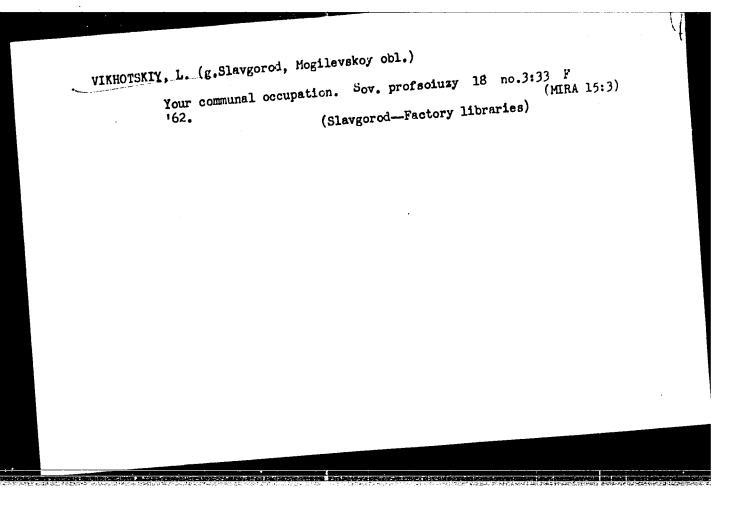
ASSOCIATION:

Leningradskiy politekhnichoskiy institut (Leningrad Polytechnical Institute)

SUBMITTED:

April 5, 1958

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(Atlantic Ocean-Organic matter-Analysis)
(Bitumen-Analysis) (Luminescence)

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ALEKSINA, Iya Aleksandrovna; <u>VIKHRENKO</u>, <u>Nina Makarovna</u>;
KULAKOVA, Lidiya Sergeyevna; MAYEV, Yegor Georgiyevich;
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Sergeyevna; ZENKOVICH, V.P., otv. red.; LEONT'YEV, O.K.,
red. izd-va; IADYCHUK, L.P., red. izd-va; GUS'KOVA, O.M.,
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[Geology of the subsurface slope of the Caspian Sea]Geologicheskoe stroenie podvodnogo sklona Kaspiiskogo moria.
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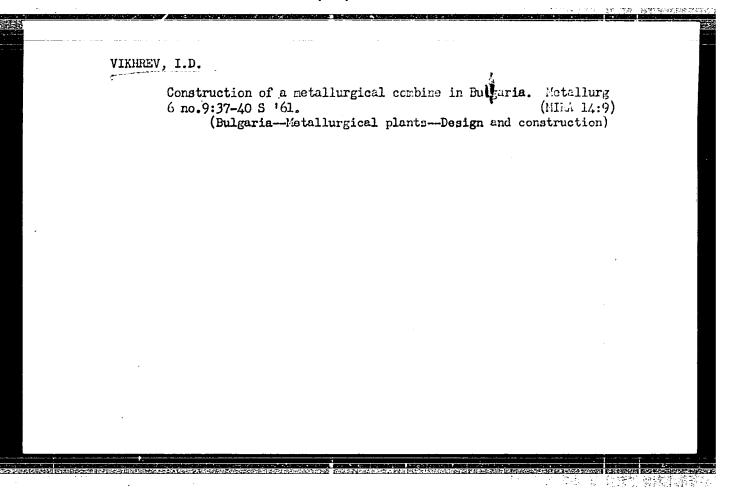
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[Organization and planning of construction production] Organizatsiia i planirovanie stroitel'nogo proizvodstva.
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Systematizing the repair of open-hearth furnaces. Metallurg 6 no.8:13-15 Ag '61. (MIRA 14:8)

1. Nachal'nik sektora Gosudarstvennogo instituta proyektirovaniya metallurgicheskikh zavodov. (Open-hearth furnaces--Maintenance and repair)



VIKHREV, IVAN PHITRITEVICH

Call Nr: TN 677.V5

AUTHOR:

Vikhrev, Ivan Dmitriyevich, Candidate of Technical

Sciences

TITLE:

Reconstruction of Large Blast Furnaces by the "Push-up"

Method (Rekonstruktsiya domennoy pechi bol'shogo

ob"yema metodom nadvizhki)

PUB. DATA:

Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo

literatury po chernoy i tsvetnoy metallurgii, Moscow,

1957, 129 pp., 2,500 copies

ORIG. AGENCY:

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EDITOR:

Zinger, S.L.; Technical Editor: Bekker, O.G.

PURPOSE:

This book is intended for designers, and others special-

izing in blast-furnace construction and repairs.

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